COMPUTATIONAL MODELING RESULTS TIME SERIES
CTV III

Predictions of Systems Behavior

The following maps (**Figure 1**) and cross-sections (**Figure 2**) show the computational modeling results and development of the CO_2 plume at different time steps. The boundaries of the CO_2 plume have been defined with a 0.01 CO_2 global mole fraction cutoff.

As shown in **Figure 1**, the CO_2 extent is largely defined by year 52 after the end of injection. The majority of CO_2 injectate remains as super-critical CO_2 (83%) with the remaining portion of the CO_2 dissolving in the formation brine over the simulated 100 years post injection. **Figure 3** shows the modeled results of the total CO2 injected, the amounts stored in Supercritical phase and amounts dissolved in brine over time.

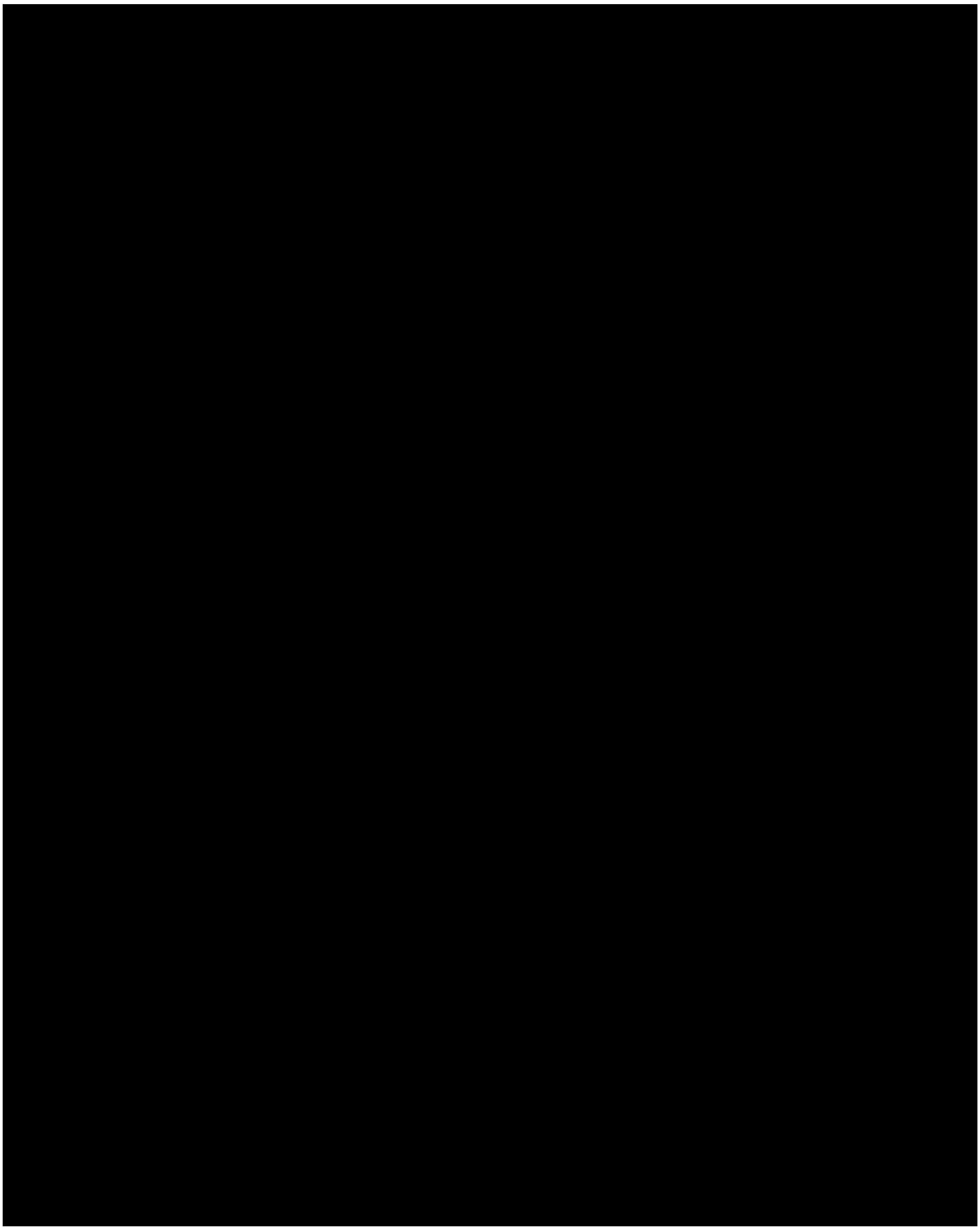

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Figure 3. CO2 storage mechanisms in the reservoir.